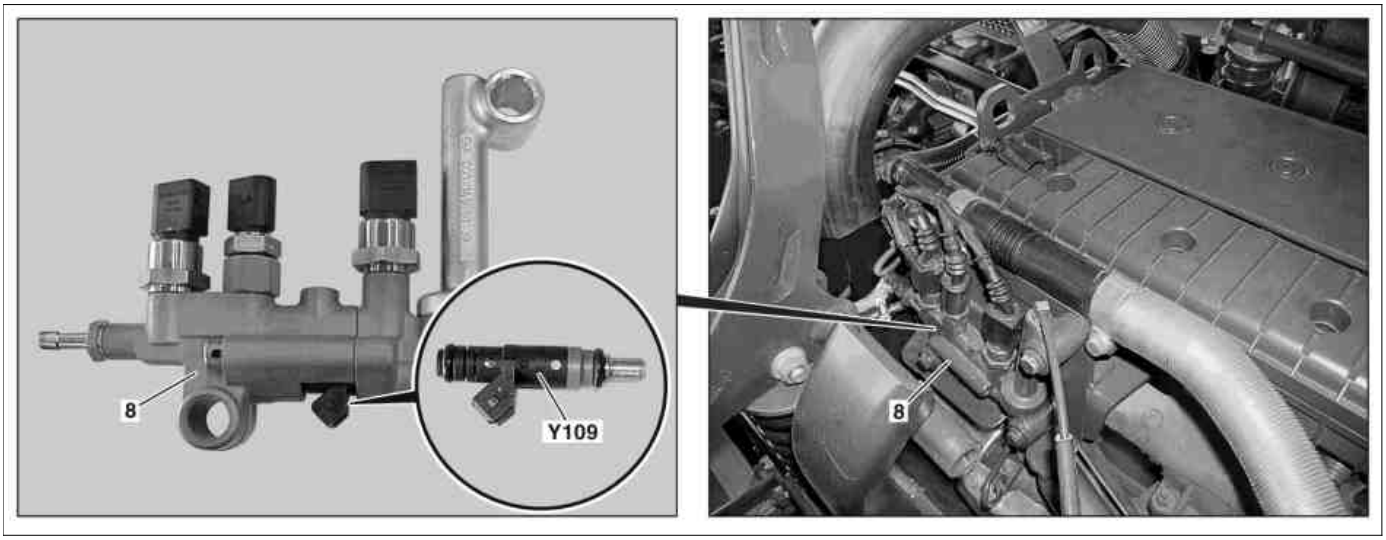
GF14.40-W-3008C	Component description for SCR AdBlue metering valve	15.3.06

ENGINE 900.9 in MODEL 970, 972, 975, 976 with CODE (MS4) BlueTec 4
ENGINE 900.9 in MODEL 970, 972, 975, 976 with CODE (MS5) BlueTec 5
ENGINE 902.9 in MODEL 970, 972, 974, 975, 976 with CODE (MS4) BlueTec 4
ENGINE 902.9 in MODEL 970, 972, 974, 975, 976 with CODE (MS5) BlueTec 5
ENGINE 924.9 in MODEL 970, 972, 974 with CODE (MS4) BlueTec 4
ENGINE 924.9 in MODEL 970, 972, 974 with CODE (MS5) BlueTec 5
ENGINE 902.9 in MODEL 950.5 /6, 952.5 /6, 953.6, 954.5, 957 with CODE (MS4) BlueTec 4
ENGINE 902.9 in MODEL 950.5 /6, 952.5 /6, 953.6, 954.5, 957 with CODE (MS5) BlueTec 5
ENGINE 926.9 in MODEL 950.5 /6, 952.5 /6, 953.6, 954.5, 957 with CODE (MS4) BlueTec 4
ENGINE 926.9 in MODEL 950.5 /6, 952.5 /6, 953.6, 954.5, 957 with CODE (MS5) BlueTec 5



W14.40-1274-08

Illustrated on model 950.5 *8 Metering device* *Y109 SCR AdBlue metering valve*

Location

The SCR AdBlue metering valve (Y109) is install inside of the metering device (8), which is located close to the rear cylinder head.

Task

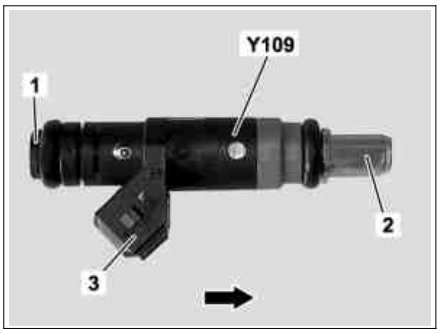
The SCR AdBlue metering valve (Y109) is controlled by the engine control (MR) control unit and provides AdBlue for injection at the injection nozzle.

Design

1 AdBlue inlet
2 AdBlue outlet
3 Electrical connector

Y109 SCR AdBlue metering valve

The SCR AdBlue metering valve (Y109) is a 2/2- way valve. Inside the valve, the valve body is designed as a solenoid armature.



W14.40-1088-01

Function

The SCR AdBlue metering valve (Y109) is actuated by the MR control unit. The MR control unit activates the SCR AdBlue metering valve (Y109) depending on the engine operating point and various environmental influences.
The AdBlue at the closed valve body inside the SCR AdBlue metering valve is pumped by the SCR AdBlue pump (Y109) to its operating pressure. The force of a push spring keeps this valve between the AdBlue inlet (1) and the AdBlue outlet (2) closed.
When current is applied the valve body slides and opens the passage so that AdBlue can flow through.
When the current is interrupted, the spring pushes the valve back to its starting position and the passage is blocked again.